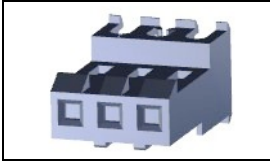


### 3-640599-3 Product Details

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**3-640599-3**

TE Internal Number: 3-640599-3

Active

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#### MTA, CST-100 II, MT-6 and SL Connectors and Headers

Always EU RoHS/ELV Compliant (Statement of Compliance)

**Product Highlights:**

- MTA-156 Product Line
- MTA Series
- Wire-to-Post
- Applies To Wire/Cable
- Connector

[View all Features](#)

#### Quick Links

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Documentation & Additional Information	
<p><b>Product Drawings:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">MTA-156 CONNECTOR ASSEMBLY, 18 AWG, STANDARD</a> (PDF, English)</li> </ul> <p><b>Catalog Pages/Data Sheets:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">MTA, CST-100 II, SL-156 and AMP Economy Power (EP) C...</a> (PDF, English)</li> </ul> <p><b>Product Specifications:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">System, Connector/Header, MTA 156</a> (PDF, English)</li> </ul> <p><b>Application Specifications:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">MTA 156 Connectors</a> (PDF, English)</li> <li>• <a href="#">MTA 156 Ribbon Cable Connector Assemblies (English A...</a> (PDF, English)</li> <li>• <a href="#">MTA 156 Ribbon Cable Connector Assemblies (English A...</a> (PDF, Japanese)</li> </ul> <p><b>Instruction Sheets:</b></p> <ul style="list-style-type: none"> <li>• None Available</li> </ul> <p><b>CAD Files:</b> (CAD Format &amp; Compression Information)</p> <ul style="list-style-type: none"> <li>• <a href="#">2D Drawing</a> (DXF, Version M)</li> <li>• <a href="#">3D Model</a> (IGES, Version M)</li> <li>• <a href="#">3D Model</a> (STEP, Version M)</li> </ul>	<p><b>Additional Information:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Product Line Information</a></li> </ul> <p><b>Related Products:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Tooling</a></li> <li>• <a href="#">Mating Products (42)</a></li> </ul>

[List all Documents](#)

Product Features (Please use the Product Drawing for all design activity)	
<p><b>Product Type Features:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Product Line</a> = MTA-156</li> <li>• Series = MTA</li> <li>• Product Type = Connector</li> <li>• Connector Type = Connector Assembly</li> <li>• Termination Method to Wire/Cable = IDC</li> <li>• PCB Mount Retention = Without</li> <li>• PCB Mount Alignment = Without</li> <li>• <a href="#">Connector Design</a> = Feed Through</li> <li>• Strain Relief = With</li> <li>• Wire/Cable Type = Discrete Wire</li> <li>• Sealed = No</li> <li>• UL File Number = E28476</li> <li>• CSA File Number = LR7189</li> </ul> <p><b>Mechanical Attachment:</b></p> <ul style="list-style-type: none"> <li>• Contact Retention = With</li> <li>• Mating Retention Type = Locking Ramp</li> <li>• <a href="#">Panel Mount Retention</a> = Without</li> <li>• Contact Retention Type = Locking Lance</li> </ul> <p><b>Electrical Characteristics:</b></p> <ul style="list-style-type: none"> <li>• Contact - Rated Current (A) = 7</li> <li>• Operating Voltage Reference = AC</li> </ul>	<p><b>Housing Features:</b></p> <ul style="list-style-type: none"> <li>• Connector Style = Receptacle</li> <li>• Centerline (mm [in]) = 3.96 [0.156]</li> <li>• Housing Style = Standard</li> <li>• Housing Material = Nylon 6/6</li> <li>• Housing Color = White</li> <li>• <a href="#">Mating Alignment</a> = Without</li> <li>• UL Flammability Rating = UL 94V-2</li> </ul> <p><b>Configuration Features:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Number of Positions</a> = 3</li> <li>• <a href="#">Post Number(s) Omitted</a> = None</li> <li>• <a href="#">Backwall/Post Interruption(s)</a> = Without</li> <li>• Number of Rows = 1</li> </ul> <p><b>Industry Standards:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">RoHS/ELV Compliance</a> = RoHS compliant, ELV compliant</li> <li>• <a href="#">Lead Free Solder Processes</a> = Not relevant for lead free process</li> <li>• RoHS/ELV Compliance History = Always was RoHS compliant</li> <li>• Agency/Standard = CSA, UL</li> <li>• UL Rating = Recognized</li> <li>• CSA Rating = Certified</li> </ul> <p><b>Environmental:</b></p>

- Operating Voltage (VAC) = 600

**Termination Features:**

- Wire/Cable Size (mm<sup>2</sup>) = 0.8 – 0.9
- Wire/Cable Size (AWG) = 18

**Body Features:**

- Wire Type = Stranded
- Mating Retention = With
- Cable Exit Angle = 90°
- Underplate Material Thickness (µm [µin]) = 0.762 [30.000]
- Assembly Integration Feature = Without

**Contact Features:**

- Contact Type = Socket
- Contact Base Material = Copper Alloy
- Contact Plating, Mating Area, Material = Matte Tin
- Contact Layout = In-Line
- Multiple Contact Types = Without
- Contact Plating, Mating Area, Thickness (µm [µin]) = 2.03 – 5.08 [80 – 200]
- Underplate Material = Nickel

**Environmental:**

- Operating Temperature (°C [°F]) = -55 – +105 [-67 – +221]

**Conditions for Usage:**

- Applies To = Wire/Cable
- Accepts Wire Insulation Diameter, Range (mm [in]) = 2.41 [0.095]
- For Use With = MTA .156 Header

**Operation/Application:**

- Application Use = Wire-to-Post

**Packaging Features:**

- Packaging Method = Box
- Packaging Quantity = 500

**Other:**

- Brand = AMP
- Comment = Stripe may run down between ribs

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4

3

2

1

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LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
CM	00	T	REVISED PER ECO-12-007611	03AUG12	KH SM

95.10[3.744]	24	5-640599-4
91.13[3.588]	23	5-640599-3
87.17[3.432]	22	5-640599-2
83.21[3.276]	21	5-640599-1
79.25[3.120]	20	5-640599-0
75.29[2.964]	19	4-640599-9
71.32[2.808]	18	4-640599-8
67.36[2.652]	17	4-640599-7
63.40[2.496]	16	4-640599-6
59.44[2.340]	15	4-640599-5
55.47[2.184]	14	4-640599-4
51.51[2.028]	13	4-640599-3
47.55[1.872]	12	4-640599-2
43.59[1.716]	11	4-640599-1
39.62[1.560]	10	4-640599-0
35.66[1.404]	9	3-640599-9
31.70[1.248]	8	3-640599-8
27.74[1.092]	7	3-640599-7
23.77[.936]	6	3-640599-6
19.81[.780]	5	3-640599-5
15.85[.624]	4	3-640599-4
11.89[.468]	3	3-640599-3
7.92[.312]	2	3-640599-2

1 MATERIAL: CONNECTOR - NYLON UL94-V2  
 CONTACTS - 0.30[.012] THICK COPPER ALLOY  
 (BRIGHT TIN-LEAD 0.00203[.000080] MIN. THICK  
 FOR CONTACTS 640599-2 THRU 2-640599-4]  
 (MATTE WHISKER MITIGATED TIN 0.00203[.000080] MIN  
 THICKNESS OVER NICKEL UNDERPLATE FOR  
 3-640599-2 THRU 5-640599-4).

2 CONTACTS ACCEPT 18 AWG WIRE WITH 2.41[.095] MAX INSULATION DIAMETER.

3 CONTACTS MUST ACCEPT 1.14±0.03[.045±.001] SQUARE POST AND REMAIN LOCKED IN POSITION.

4 IDENTIFICATION NUMBER FOR LAST CIRCUIT MAY NOT APPEAR ON ALL ASSEMBLIES.

5 DIMENSIONS IN BRACKETS ARE IN INCHES.

6 HOUSING FEATURES ARE: FEED-THRU WITH LOCKING RAMP.

7 OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

8 ORANGE COLOR STRIPE ON HOUSING (NOT SHOWN) MAY RUN DOWN BETWEEN RIBS

△ SUPERSEDED BY 5-640599-4  
 △ SUPERSEDED BY 5-640599-3  
 △ SUPERSEDED BY 5-640599-2  
 △ SUPERSEDED BY 5-640599-1  
 △ SUPERSEDED BY 5-640599-0  
 △ SUPERSEDED BY 4-640599-9  
 △ SUPERSEDED BY 4-640599-8  
 △ SUPERSEDED BY 4-640599-7  
 △ SUPERSEDED BY 4-640599-6  
 △ SUPERSEDED BY 4-640599-5  
 △ SUPERSEDED BY 4-640599-4

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S.CARPENTER 09JUL2003			
DIMENSIONS: mm [INCHES]		CHK D BOSSI 09JUL2003			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD D BOSSI 09JUL2003	NAME MTA-156 CONNECTOR ASSEMBLY, 18 AWG, STANDARD		
0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± 0.13 [.005] 4 PLC ± -		PRODUCT SPEC 108-1051	SIZE A2	CAGE CODE 00779	DRAWING NO C-640599
MATERIAL 1		FINISH 1	RESTRICTED TO -	SCALE 4:1	SHEET 1 OF 1
CUSTOMER DRAWING			REV T		

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